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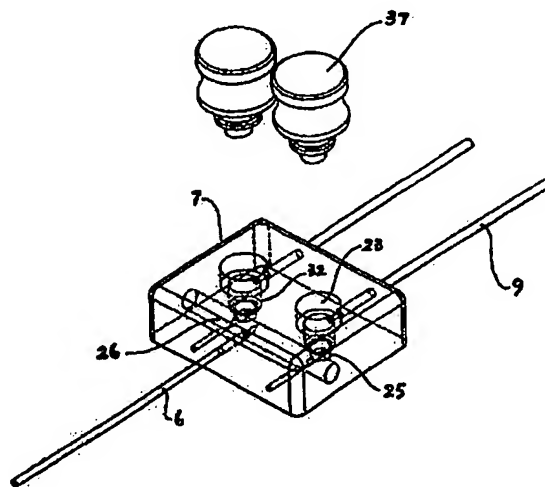
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- (71) Applicants: COOK INCORPORATED [US/US]; 925 S. Curry Pike, P.O. Box 489, Bloomington, IN 47402-0489 (US). WILLIAM A. COOK AUSTRALIA PTY. LTD. [AU/AU]; 12 Electronics Street, Brisbane Technology Park, Eight Mile Plains, Brisbane, QLD 4113 (AU). (84) Designated States (*regional*): Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (72) Inventors: CHAN, Paul; 8 Oyster Point Esplanade, Scarborough, QLD 4020 (AU). SMITH, Allan, Joseph, Hilling; 59 Delavan Street, Wishart, QLD 4122 (AU). MICHEL, David; 1 Gordon Road, Redland Bay, QLD 4165 (AU). Published:
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(54) Title: PERFUSION INCUBATOR



(57) Abstract: A perfusion incubator having a fluid conditioning unit (12), a well assembly (7) and a well assembly heating unit (14), a peristaltic pump (4) and a fluid collection unit (11). The well assembly has a number of wells (20, 21) each having a transparent lid (30) and a fluid inlet (26) and a fluid outlet (27). An illumination device (13) is under the well so that the cell being cultured in the well assembly can be observed by means of a microscope (15). Each fluid inlet (26) is positioned so as to allow a tangential entry of fluid to the well at a mid point in the well, and each fluid outlet (27) is above the fluid inlet with the cell to be cultured in a lower portion of the well so that flow of fluid in the well is formed into a vortex which tends to draw fluid from around the cell without direct flow over the embryo.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/09972

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12M3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 530 907 A (PETERSON ANDERS ET AL) 23 July 1985 (1985-07-23) ---	
A	EP 0 171 896 A (UNIV BROWN RES FOUND) 19 February 1986 (1986-02-19) ---	
A	US 4 435 508 A (GABRIDGE MICHAEL G) 6 March 1984 (1984-03-06) -----	



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Patent family members are listed in annex.

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Date of the actual completion of the international search

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Information on patent family members

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